USGS
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Earthquake Shaking   ⬤ Green **Alert**

GSN · USAID FROM THE AMERICAN PEOPLE · ANSS
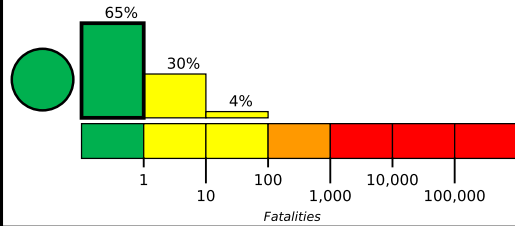
PAGER
Version 4

M 5.5, 10 km ENE of Rmganj, Bangladesh
Origin Time: 2023-12-02 03:35:32 UTC (Sat 09:35:32 local)
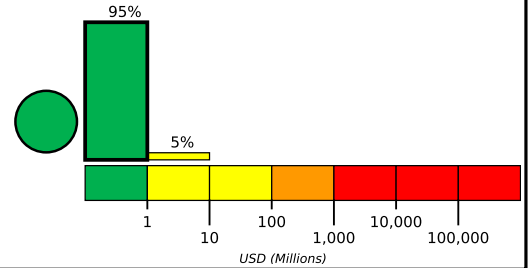Location: 23.1236° N 90.9449° E Depth: 38.5 km

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

65%
30%
4%

1   10   100   1,000   10,000   100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
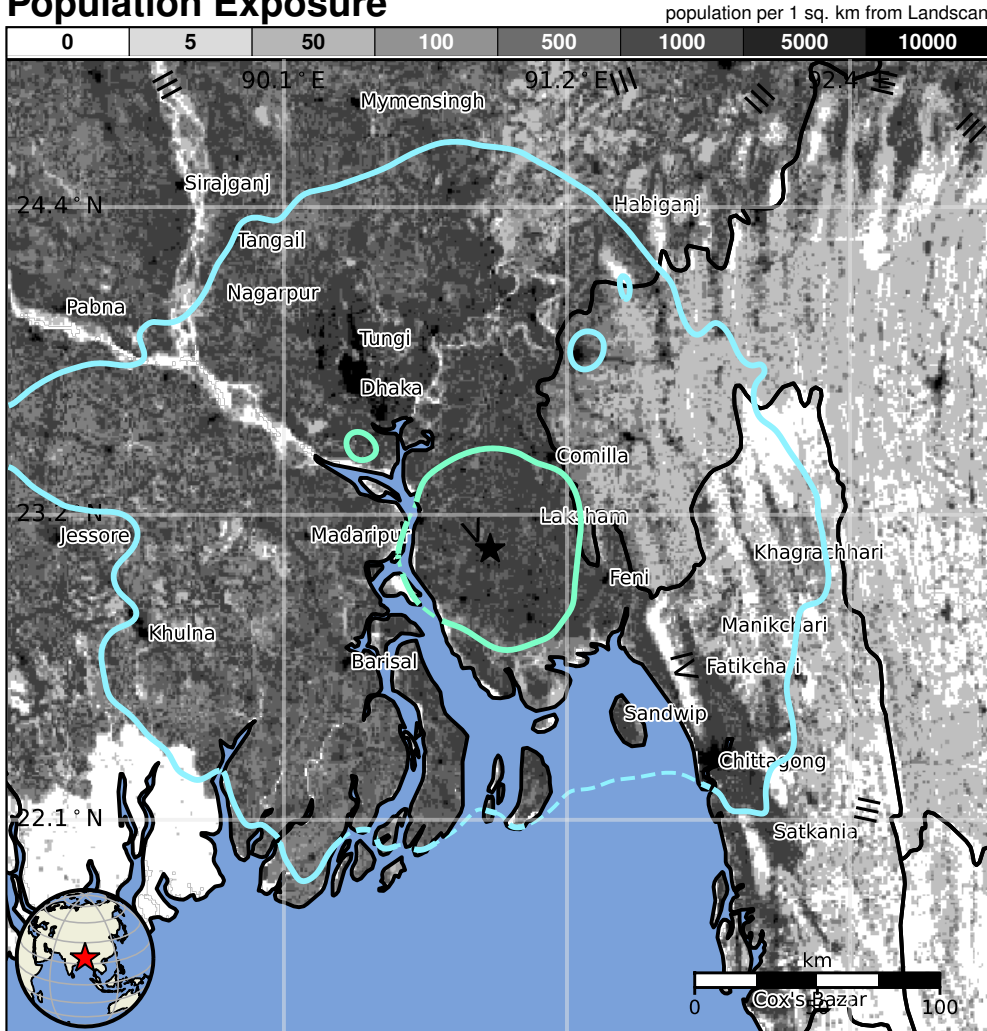
Estimated Economic Losses

95%
5%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	42,099k*	82,727k	10,390k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000

Structures
Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are adobe block with wood and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1989-06-12	188	5.8	VI(30k)	1
1988-02-06	183	5.8	VII(866k)	2
1984-12-30	258	6.0	IX(4k)	20

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure
from GeoNames.org

MMI	City	Population
V	**Laksham**	**82k**
V	Ramganj	55k
V	Raipur	65k
V	Lakshmipur	62k
V	Hajiganj	44k
IV	**Comilla**	**389k**
IV	**Chittagong**	**3,920k**
IV	**Dhaka**	**10,356k**
IV	**Khulna**	**1,342k**
III	Aizawl	265k
III	Sylhet	237k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us7000lfaa#pager

Event ID: us7000lfaa